UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work	5. Lease Number	12.
u.	DRILL	5. Lease Number RECEIVED NM-04241	C.
		FARMING Unit Reporting Nu	mber CC 77 17 07 9
		NM-0740	17-DK
b.	Type of Well	6. If Indian, All. or Tr	ibe
	GAS		
 !.	Operator	7. Unit Agreement N	ame
	<u>Burlington</u>		
	RESCURCES Oil & Gas Company	Sunray F	
k _{iĝ}	Address & Phone No. of Operator	8. Farm or Lease Na	me
'':	PO Box 4289, Farmington, NM 87499		
	(TOW) 00C 0000	9. Well Number	*
	(505) 326-9700	3E	
	Location of Well	10. Field, Pool, Wilde	cat
	Unit D (MMNM), 670' F\$L, 925' FWL ຄພາພ	Basin Dakota	
		11. Sec., Twn, Rge, N	ler. (NMPM)
	Latitude 360 45.5713) Sec. 1, T29N, R	10W
	Longitude 107° 50.4851		
		API# 30-045-339	869
4.	Distance in Miles from Nearest Town	12. County	13. State
	4.2 miles to Blanco, NM	San Juan	NM
5.	Distance from Proposed Location to Nearest Property or L	ease Line	
	670′		
6.	Acres in Lease	17. Acres Assigned	to Well
		DK 324.98 ac N2	
8.	Distance from Proposed Location to Nearest Well, Drlg, Co	ompl, or Applied for on this Le	ase
9.	52' - Florance E LS #1A Proposed Depth	20 Poteny or Cable	Tools .
J .	6999'	20. Rotary or Cable ' Rotary	10015
1.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date We	ork will Start
	5896'GL		
3.	Proposed Casing and Cementing Program		
	See Operations Plan attached		
. A	Authorization Augman I a	П 20	π Λ / π
24 .	Authorized by: Manalyst Regulatory Analyst		-06
	Regulatory Analyst	Date	
PERM	IIT NO. APPRO	VAL)DATE	
/PPR	OVED BY AND QUILLE PITTLE	ACM DATE	: 812/XC
	TILE	CLCCL DAIL	/-/

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.





DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Foi Revised October Submit to Appropriate Distr State Lease -

Fee Lease -

☐ AMENDED

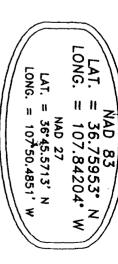
DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

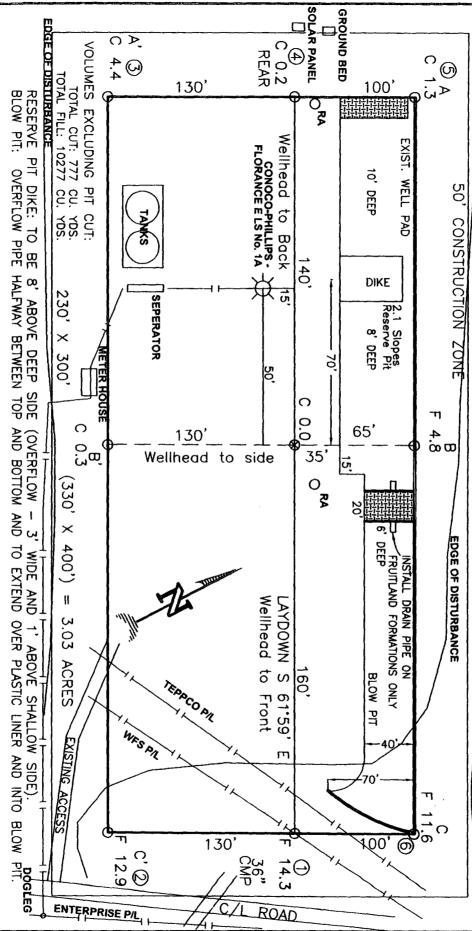
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'API N 30-045-	iumber 336	369	7159	² Pool Code 9		Rac	sin Dakota	³ Pool Nam	e		
¹ Property Code					•	perty N	ame			" We	ell Numt
756 8	}					VRAY	·				3E
⁷ OGRID No.		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP					* Elevation				
14538]		BUKL	NGION RI	ESOURCES	OIL	& GAS COMPAN	WY LP			5896
		•			10 Surf	ace	Location				
UL or lot no.	Section	Township 29-N	Range 10-W	Los Fide	Feet from	the	North/South line NORTH	Feet from the 925	East/West WEST		Count
D	1	29-11			670		<u> </u>	<u> </u>	WEST		SAN
UL or lot no.	Section	Township	"Bott	om Hole	LOCOT!		f Different Fr	om Surface	East/West	lina	10
D D	Section	Township	Kunge	Lot ion	7 800 11 0111	1118	Northy South line	reet non the	Eusty mes	i iiii g	Count
12 Dedicated Acres		113	Joint or Infill	L	14 Consolidat	tion Co	de	¹⁵ Order No.			L
DT 00/ 00	25. 314	}									
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NO ALLOW	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						EEN APPROVE				
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925'	b		41.11 40.83 AT: 36.75953° N. (NAD 83)			Ì	LOT 5 40.41	interest or	belief, and that this organization either owns a w interest or unleased mineral interest in the land		
LOT 8 41.53				W. (NAD 83)		}			including the proposed bottom hole location or in right to drill this well at this location pursuant to		
ωŜ		LAT: 36°	'45.5713' N	. (NAD 27)	,			interest, or	th an owner of a to a voluntary p	pooling agree	ement or
ဖ		LONG:10)7°50.4851°	W. (NAD 2	(7)			compulsory division.	pooling order he	retofore ent	lered by t
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Submit 3 Copies To Appropriate District Office	State of New Mexico				F	Form C-103
District I	Energy, Minerals and Natural Resor	urces		, <u>-</u>		May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		1	WELL API NO.	20.04	15-33	869
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVIS	ION	5. Indicate Type o		<u> </u>	
District III	1220 South St. Francis Dr.	L	STATE		FEE	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505		State Oil & Gas	Lease No.		
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 8750	5	1		_NM-042	41	
	ES AND REPORTS ON WELLS		7. Lease Name or U			
l'	TO DRILL OR TO DEEPEN OR PLUG BACK TO A	1		~	_	
DIFFERENT RESERVOIR. USE "APPLICATIO" PROPOSALS.)	N FOR PERMIT" (FORM C-101) FOR SUCH			Sunray	F	
1. Type of Well:		[5	8. Well Number			
Oil Well Gas Well X	Other			3E		
2. Name of Operator	URCES OIL & GAS COMPANY LP		9. OGRID Number	14538		
3. Address of Operator	ORCES OF & GAS COMPANY EF		10. Pool name or V			
	EET, FARMINGTON, NM 87402			Basin Dal	kota	
4. Well Location Unit Letter D : 6	70' feet from the South line	and	925' feet fro	m the	West	line
Section 1	Township 29N Rng	10W	NMPM	County		n Juan
11. I	Elevation (Show whether DR, RKB, RT, GR, et	tc.)				
Pit or Below-grade Tank Application	5896'					>200'
Pit type New Drill Depth to Groundwa	ater >100' Distance from nearest fresh water	well	>1000' Distance	from nearest	surface wate	· ·
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume			tion Material		
12 Check A	appropriate Box to Indicate Nature	of Notic	ce Report or C	ther Dat		
NOTICE OF IN	·		SUBSEQUEN			
PERFORM REMEDIAL WORK	1	MEDIAL			LTERING	CASING
TEMPORARILY ABANDON	I		E DRILLING OPNS	. 🔲 ғ	AND A	
PULL OR ALTER CASING	MULTIPLE COMPL CA	SING/CE	MENT JOB			
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OTHER: New	Drill X OT	HER:				
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BURLINGTON RESOURCES OIL & SUNRAY F No. 3E, 670 FNL 925 FWL GAS COMPANY LP

SECTION 1, T-29-N, R-10-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 5896, DATE: MAY 19, 2006





NOTE:

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

NOTE:

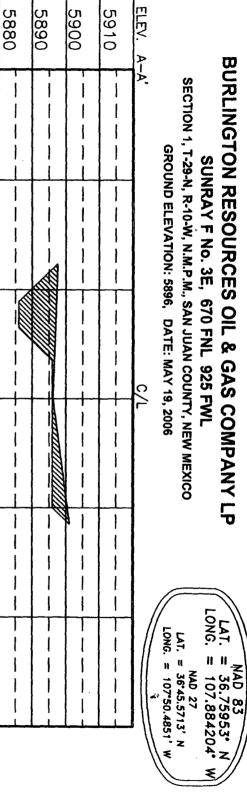
DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE: ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN

Daggett Enterprises, Inc. Surveying and Oil Field Services P. O. Box 15068 • Farmington, NM 87401

Phone (505) 326-1772 · Fax (505) 326-6011

BURLINGTON RESOURCES OIL & GAS COMPANY LP



	5890	5900	5910	ELEV. C-C'	5880	5890	5900	5910	ELEV. B-B'
				C'	-				B,
Z		1	1				-		
				c/L					c/L
				_					L
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NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

5880

NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION

Surveying and Oil Field Services Daggett Enterprises, Inc. Phone (505) 326-1772 • Fax (505) 326-6019 P. O. Box 15068 • Farmington, NM 87401

OPERATIONS PLAN

Sunray F #3E

Location:

670' FSL & 925' FWL, Section - 29N - 10W

San Juan County, New Mexico

Formation:

Elevation:

Basin Dakota

5896' GL

Surface	San Jose		
Surface	San Jose	1172'	
Ojo Alamo	1172'	1335'	aquifer
Kirtland	1335'	1883'	gas
Fruitland Coal	1883'	2419'	gas
Pictured Cliffs	2419'	2563'	gas
Lewis	2563'	3103'	
Huerfanito Bentonite	3103'		
Chacra	3401'	4125'	gas
Massive Cliff House	4125'	4171'	gas
Menefee	4171'	4651'	gas
Massive Point Lookout	4651'	5085'	gas
Mancos Shale	5085'	5739'	
Upper Gallup	5739'	6644'	gas
Greenhorn	6644'	6702'	gas
Graneros	6702'	6758'	gas
Two Wells	6758'	6829'	gas
Paguate	6829'	6884'	gas
Cubero	6884'	6999'	gas
Total Depth:	6999'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none Coring - none DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

<u>Interval</u>	Type	Weight	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 2663'	LSND	8.4 - 9.0	30 - 60	no control
2663' - 6999'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2663'	7"	20/23#	J~55
6 1/4"	0' - 6999'	4 1/2"	10.5#/11.6#	J-55

Tubing Program:

Depth Interval	<u>Csq.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 6999'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 4 ½" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test
 proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing -

Pre-Set Drilled - Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead with 221 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (124 cu ft 50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/56 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 146 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (594 cu ft - 50% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo @ 1335'. Two turbolating centralizers at the base of the Ojo Alamo @ 1335'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Pump 284 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (562 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Cementing: Continued

Cement float collar stacked on top of float shoe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Dakota formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi
Pictured Cliffs 600 psi
Mesa Verde 700 psi
Dakota 2000 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The north half of Section 1 is dedicated to the Dakota formation.
- This gas is dedicated.

Drilling Engineer

7/27/06 Date

Driting Rig Choke Manifold Configuration 2000 pel System

Burlington Resources

2000 psi System Drilling Rig

MO PLOCA

PRILAP LINE

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pressure or greater excluding 600 pel chipping head the BOP. All BOP equipment is 2000 pel working Operations, 7-1/16" bore, 2000 pel minhm Minimum BOP installation for eff Comp Ape rams. A stripping head to be fruit essure double gate BOP to be equip

Figure #2

4-20-01